

```

#include <stdio.h>

typedef
    union{
        float x;

        struct{
            unsigned f:23;

            unsigned e:8;

            unsigned s:1;

        } p;
    } print_fp_value;

int main()
{
    print_fp_value num;

    printf("Single precision FP value: ");

    scanf("%f",&num.x);

    printf("WnS: %d",num.p.s);

    printf("WnE: ");

    for(int i=7;i>=0;--i)

        printf("%d",(num.p.e>>i)&1);

    printf("WnF: ");

    for(int i=22;i>=0;--i)

        printf("%d",(num.p.f>>i)&1);

}

```

```
f.. m x b c d e i.c
1  #include <stdio.h>
2  typedef
3  union{
4      float x;
5      struct{
6          unsigned f:23;
7          unsigned e:8;
8          unsigned s:1;
9      } p;
10 } print_fp_value;
11 int main()
12 {
13     print_fp_value num;
14     printf("Single precision FP value: ");
15     scanf("%f",&num.x);
16
17     printf("\nS: %d",num.p.s);
18
19     printf("\nE: ");
20     for(int i=7;i>=0;--i)
21         printf("%d", (num.p.e>>i)&1);
22
23     printf("\nF: ");
24     for(int i=22;i>=0;--i)
25         printf("%d", (num.p.f>>i)&1);
26 }
```

디버그    터미널    검색    리소스 모니터    린트    run /workspace/C

초기화    종료    gcc /workspace/C/src/main.c -o /tmp/a.out && /tmp/a.out

Single precision FP value: 125.11

S: 0  
E: 10000101  
F: 11110100011100001010010root@goorm:/workspace/C# ^C  
gcc /workspace/C/src/main.c -o /tmp/a.out && /tmp/a.out  
root@goorm:/workspace/C# gcc /workspace/C/src/main.c -o /tmp/a.out &&  
/tmp/a.out  
Single precision FP value: -0.75

S: 1  
E: 01111110  
F: 100000000000000000000000root@goorm:/workspace/C#